

(Differtation) Paped March 28th h. 8. H Traumatic Tetamus Joseph Mechlin junt. Washington bity

The following imperfect remarks on Transactio Tetanus, which, in compliance with a Long established regulation of this Mouvercity I now subtruits to the consideration of the Juculty will at the first glance be seen to be almost entirely extectic, a circumstance necessarily attendants upon a great majority of inaugural difertations not of an experiencen -tal nature. The authorities within my reach have been carefully consulted, and such remedies and modes of treatment as appeared to have been most succepful have been selected -The pathology of the disease has been purposely mutted This being a point on which the most enlightened practitioners have not been ables

to come to any satisfactory conclusion, it could searcely

be expected that the crude speculations of a mere typo

of he following uniforefeel remarks and Secrementer Salaman proceeding with course please as south They steeld the prepulation of this they they on substitute to this considerations of the faculty will it the first plance he seem to be almost outsily relicite, a curium tunical ancespanily inthereducety referre a great majusty of managerest differtations not of an extension Tak nature . The authorities within my much have leave daily family had france Diech paradis and made She pathelize of the disease has in proposely mighted the their parter on principle he mist intephterial printtering have nit have ables to come to any satisfactory anglusiered, it could nancely Anotrates exper were countered aprenished in some who

would tend to elucidate it; indeed any attempt to obtude them upon the notice of the scientific board for whose inspection these pages were prepared would not only be superfluents but highly rediculous

Seturnes is a term derived from
the Greek and is used to denote a permanent spasmodic
contraction of the voluntary muscles, occurring with more
in less violence, being either fractial or general, and
accompanied with great rigidity of the parts affected.

It is divided into Idiopathic or

primary and Symptomatic or secondary also called Transmotic, the former often arising without any istensible cause, the latter being the result of some mechanical injury, and is that to which the following observations will be chiefly confined?

There are some modifications of Retained on which the older mosologists founded differents of the disease thus, a spasmodic rigidity of

coelet time to a discontate it ; and well any alley fit tistlend can expend the networ of the soundful sounded for where advections spires but never produced much sing met superfluence hit highly rediculous in Defined and is used to denote a promount of asserted interestions of the rolling in models, eccurring with more les inclines, being wither purteal, or general and mountained with quat rejectely of the part of fire umary and symptomater a securdary who called Training the forming often missing inthous any istinsible carre, the Table heavy the result of some inchanced ciping and is that to which the following descendent and he duffy There are some modifications of telanine in which the older mostified francisco different Apriled of the disease of these a spentimental rejection of

The muscles of the jaw was denominated Trismus; when the muscles of the back were chiefly affected with spasm the body being bent backwards it was termed Opisthotonis, and when the disease was in a great measure confined to the flexors of the trunk and extremities; the body being flexed forwards it was recognised by the appellation of Emprosthotonos - There is another four which however occurs very rarely it is where the telanic rigidity is limited to the muscles of one side only constituting the Fetarus Lateralis of Sourage the Pleurosthetonos of some others. The term tetames was considered as strictly officable only where the spasme was nearby universal Keeping the body rigidly extended. These different terms are however at present regarded as expressing merely varieties of the same disease, arising from the same causes, differing only in severily, and requiring the same made of treatment for their cure -Fetamus is also divided into acute and

chronic, which is by far the most important distinction,

The manded of the face sent demanded stagement when the number of the hast was chefty africal with spase the body having doort hardwards it was terried Episthetines , and when the didente was no givet mountained any finest to the players of the transh and antromaters, the body being flowed forwards it was recognised by the appellation of Emprior the town - Thouse is another found interest housens comes my randy it is where the telames registerly is dimented to the members of one side why constituting the Returned Lateralis of Surreyes the Plus Elinesthatories of some others . The term tetames was considered as society opplicable enly where the spoon and nearly somewords history; the bedy jugichly extended . These deferint terms are human at present regarded as expressing menty annieties of the sume disease, anderry from the sume causes differing well in severally and requirery our same much of Erectmine for their cines? detainent is also charoled wite and chronie, which is by far the revest infinition distundance.

The former being abnost uniformly fatal while the tatter, from the gradual acception of the symptoms affords more time for the exhibition of remedies and holds out greater prospects of a succepful termination Although the cause of the disease is implied in the term Transmatic, yet in considering the origin of telanus, we should take into view the Kund of wound, the part in which it is situated, as well as the climate, situation, physical conformation, so all ef which exercise a considerable influence in its development - Thus it most frequently succeeds punctured or lacerated wounds franticularly of the with facerations of the ligaments & compound fractures and dislocations - Mit Hennew observes that wounds below the elbow and knee have been those which he has seen most frequently followed by tetamus, baron harrey speaking of tetanus as it occurred in Germany remarks that the young soldiers were most obnoxious

北位 The same of the sa It com the State of THE ME morate inla Alleed we les Flanc the of of the same the the -

to it who had been wounded in the ginglimord articula-Tions or deeply in the soft parts with los of substance" The same author has observed a circumstance which appears not to have been before noticed; it is, when a wound coursing telanus injured nerves on the fore port of the body Empresthotores was occasioned, but that Ofisthotories succeeded, when the posterior nerves were injured and complete or universal telaures followed when there was a losson of both descriptions of nerves by the wound extending quite through the lind. Atthough there can be no doubt that harrey deserved this fact to have occurred in a few instances, still it is highly, improbable that there is any necessary connections between the form of the disease and the situation of the wound, for it is well known to those who have consulted the numes. nous cases of this disorder recorded by surgical writers that Trismus, Opistholonos, Emprostholonos and universal retarnes, mot only take place without any regard to the situation or extent of the wound, but in many

it is he should be town in a committee to me the surpliment of the section by the server is a settle of the server of t Afread with the shower here hefer and and the in in him to 1 100 there can be no done the that housey where were hast to have exemple in a few intermed that it is Long be done of the disease and the settlement of the with the the tenant in the what sale of and

as consequences of the same injury; nor is it at all probable that so umarkable a circumstance unded have escaped the notice of the numerous uniters who have treated of this complaint, the experience of same of whom was at least coexturine with that of larrey. The truth is that these different forms are to be regarded as merely marking the intensity and progress of the disease. Emprosthetimes & universal teams only occurring in the more advanced and intent cases.

Autums abso vecasionally succeeds ampure tation, in this case it has been supposed to originate from the inclusion of a nerve in the ligature and in some instances this has been found to be the fact; thousand larrey has nearled the case of the son of general. Danneguad who died of tetames consequent to ampulation and upon examining the stump the median were was found included in the ligature

autainess even succeptively, in the same parties of and as consequences of the survey inprise is to at all histable that so umaikable a circumstance untel have escopied the notice of the immerces waters who have treated of this complaint; the expression Come of when was at hast consume with that larry . The truth is that there different forms are to be regarded to merely unarlang the intaining and preparts of the diseases, Energhies Histories & reviewed Edward only occurring in the more advanced and unteret anded -Vetermy who is carrently succeed anyther tationed, in this case it has been supposed to enjoyed from the includion of a norse in the Lyation and in some instances this has been found for be the fact, thouse dancey has mended the case of the sen of Juneared Danneyman who died of Whamis coursents to angles tution and when viruning the steer the muchanis minie, and found involved in the lysten

worth the artery and its extremity reddish and sworth It may however be much doubted whether this in general com be considered as a ligitimate cause of the disease, as the application of ligoriums to nerves is an accident of fraguerit occurrences particularly in mulatary surgery, where the operation is generally performed in a rapid manner, and more especially in the many, where, in addition to the hurry and confusion of battle the operator has not the advantage of a very good light; yet totames after ampus tation is comparatively rare. Moseley remarks on this subject "Thave lost many posterets inthe locked jour after amprix= - tations and never founds leaving out the nerves a whether Signitures were moude or note conseed the smallest difference in the event nor were any security against the locked jaw" In this opinion the majority of practicularies appear to converde, get, it would seem from the statements of Larrey that the inclusion of nerves may, and does occar secondly, though rarely afist in the development of the disease where a strong predisposition to it wists, or where

com he autodiesed as a legilianaly carried the deep dulyale, at the applicance in the second of freezenting to be designed by has extend of consequency of properties of some desires and the second of the second o the elicibert of bearingly finishering in which is in winner and mier especially in the mady, where no addition to the hump and employed of lattle the specialise has not the agranded of or and line of the reason she against and in latered is comprovatively said a closely some to as the suffer anten you month fingeres angues and home after until eletions and sense found leaving int the server a whither atures were moved or not considered the smallest deferment rent The court and real approved hours and were forest age in this dimension are after the the principle of fire experiences of him and in a fact our invences you . To ensited some from the statement of neces very that the includence of ining and beef over welly though sauly spire in the overly united of the diseased where a strong president of the will a wind a which

the climate; season, or situation, are favourable to its produc--time, for this reason as well as an account of the inconvenience resulting from the too long retention of the ligatures, prudence would dictate to us to avaid wherever it may be practicable, the application of ligatures to nervous cords Tetanus is a disease which occurs in every part of the world, yet expresience proces that it is more frequent in warm, than in cold or temperate climates, between the tropics it is the ordinary consequence of all Kurds of wounds, succeeding even the most trivial injuries; Dr Rush considering tetamus as efectially a disease of debitity ascribes its prevalence in tropical climates to a relaxation of number file coursed by exceptive heat, in which relaxation he supposes the precisposition to it to exist; be this as it mays, the disease is not only of more frequent vecurrence in warm climates, but its clanger and intensity are also increased ; horrey found that Acteurs in Egypt was more intent and hore a greater resemblance to thy drophobia than in the colder clumate

time), for this reason as well on on a correct of the manning residency from the the day intention of the departure printered would distate to us to anich wherein it may he previouble the epplication of hyatires to new one detained is a disease which cours in every part of the world; yet expenses from that it is more frequent in many than no votal or temporate climate letum the Infries it is the ordering simsequines of all thered of acounts, succeeding iven the most trivial injuries. a De Rush Emissionery Witamers or spiriteally a discover of I delitely admited its principles of in Infriend charact to a se relevantion of inventar plue coursed by exception heart, in Someth rectionations has desphered this prescriperation to at to a exist; he this as it mony whis disease is not only of more pregnent occurrence in marin chimates, het to danger and intensity are also inversaised; have formed that the tenered are Edgiffet was some indicate and love a greater presentlanced to Mydropheber There in the cololer chancet

the weather or temperature paper from one expressed to another he also remarked the powerful influence which situation has in developing the disease, againg in this with Boyer who says that "it is more common in marshy and maritime places than in those which are dry, elevated, and at a distance from the sea" This is also the opinion of most other writers who have bad much esperience with it

Persons of both sexes, every age and condition, are hable to this disease but ceteris parishes it is more aft to attack the rebust and museular, and persons accustomed to labour than those of contrary make & habits, and it is partly and this account, as well as from their being left exposed to the exciting course that it occurs left frequently in women than mend-

Transmatio telamis is generally slower in its approach than the ddiepathic - In some

execution, he also remarked the proceeded we finessee. heel setucation had in decoloping the disease, young in marshy winds manetioned places than on their which and dry pleated, and to at a distance from the send " his is also the opinion of most other writers who have had minch expresioners with it in Tenne of fittle some some as ple constitued are leadly to this direct last cities hundred at it more ofit to attend the solute and misserilar, and pensons accordenced to labour there diese of continuy make & habits and it is partly on this account, as well as from shire hours the spires to the execting course that it recent if preguntly in ormers there werend -Grammatio Utames a generally Alexan in the opposed then well this policy action are some

rare instances it comes on suddenly and with great vidence; the most umarkable case on records is that mentioned by the tate professor Robinson of Edinburgh the patient was a negro who scratched his thumb with the edge of a broken plate and dieds of tetanus in fifteen minutes after the receipt of this trivial enjury But more com= = monely , it's approach is gradual, being often eight a ten days and occasionally a much larger time from the infliction of the wounds to the appearance of the first symptoms, and this frequently happens, when the effects of the enjury have subsided, when the wound has healed and no pain or uneasines remains-There is at first a slight stiffness in the back of the neck and about the shoulders which gradually increasing impedes both the rotation and flexion of the head upon the neck this is often mistaken for Rheuma = = tism which it much resembles, but it is attended with a sense of lapstude and delitity. The registity now extends to the muscles of the jour and throat so

as another and at evening our developments are about the sections as a regre who severtaked this themself with the color of hether plate and deed of themes in plan miner after the nearlyt of this trivial agency that more come amenty of the approach is gractical , being other eight a ten days and coordinally a unusal daign him the infliction of the mount to the opposition of the first symptoms and this prejudently happens, when the effects of the injury; have sudwelled when the come has headed and no power or muchamely received and incommence infinites total the retation vise pleasing of the diciple if in moch; this is often mistailed for the war tions wheelest much insumbles her et is interplat with a suise of highertuck out oldely the rejectily and extend to the mindes of the jour was thered in

that mastication and destutition become difficult and painful; about this time there is a sudder and rideret paine shooting from the lower part of the sternum to the spine, this is felt from time to time and at each recurrence there is an aggravation of all the other symptoms: the muscles of the neck and jane are immediately thrown into notent spasmodic action, the head is forcebly retracted, and the jaws are firmly elised These periodical attacks of spasm become more and more swere, and their effects more lasting so that the head is fixed in a state of retraction and the jaws are placed in permanent apposition, the teeth being set so firmly together as not to permet the least separation - These symptoms constitute what may be called the first stage of the disease, which sometimes occupies several days, at other times it establishes itself. with all its most instent symptoms in a few hours, in which case the patient seldow survives beyond one or two days -

and pangled about this terme there is a suddendand witnest from shorting from the love fort of the dominant to the spices, this is felt from terms to time and not ench securement there is an approximation of all the other symptoms the muscles of the med and jums doubt. There principled attacks of from home more and nove seems, and their effects more lasting to that and placed in francisint approxime; the teeth himp The so foundy together wo not to promise the livet expandent There symptomes constitute what may be compied secural day, at other bears it established dief. with all its most incline deputitions in fine hims a which case the patient selden serviced hey and

The advancements of the disease is marked by and increase of the spasm of the diaphragm bith as to frequency and force, and is accompanied by a more forcible retraction of the head and by regidity of the muscles of the sproglex of the back extending even to those of the lower extremities: These by the force of their contrac : tions frequently elicate the body in the form of a bow. resting only whom the head and heels, a state which is more fruiticularly designated by the term Opisthotonos. In a very short time a remission occurs, yet it is not so complete as to allow you to flex the patients limbs - The spannes of the muscles on the sides and fore part of the neck. still continue, but their action is in a great measure account by the number and strongth of the posterior muscles. The respiration is hurried and the pulse is small fluttering and irregular but both become more calm slow and natural during the remission. The face though sometimes pale in the intervals is generally flushed and the whole cours tenounce exhibits the strangest expression of the most

invivade of the spares of the distribusque thete is it beginned and fired and a countyanied by a may midely of the physold of the back is turding over to the the source extremities; their by the speece of their contract There properrietly shout the losy in the form of in low resting and referred the hund and heath, a state which is over frontered and during the the time this whiters In a very shirt tion a remigner recently of it is not , so someplete as to when you to play the patients benefit the fromes of the mosely no the sides and five part of the neck tell continued but their action is no a great maderia manning the mounter and strongth of the posterior muscles the respiration a humand and the finder es small fluttering during the remission The face though material pate " Tenner exhibited the strongest experient the most

melanchely distress, The patient generally desires to be as still as people and to avoid all attempts at drinking speaking or any hind of motion, as these are very aft to induce a return of the spasms.

The flexors of the needs the musely

that depref the lover jun became affected in the progress of the disease, The abdominal muscles are also involved in the same telanic rigidity, so that the abdomen is retracted towards the spine and feels hard like a freee of board -The spasmodic contraction of these and the other flexors becoming) sufficiently powerful to overcome the action of the extensors is a circumstance which indicates the advance of the disease; the body and limbs are rigidly extended a condition to which the term Tetains was formerly considered as alone strictly applicable. The disease has now searcely any remission and the fratient suffers the most exerciating torments - The secte muscles of the abdomend often contract magnally giving the approaches and feel of hard tumours

is stall as forfulle and to and all allanged at dundang or any himself of meeting as there are very It to induce a return of the spans in which is pleased in the second of the country that depend the hours join house affected in the forget the Licens The abdoinged muches one also involved in the James tolamed regulately so that the abdumer is retraited twends the spired and feel hard like a fires of board The spreading contraction of this and the other fairs becoming sufficiently fourful to account the action the extension is a summistance which undiented the advances of The disease; the bedy and himle are eigedly extended a condition to which the term libring was firmed aminimed as alone streetly applicable The deserved from some some friend and the portion to suffer the most exercisating lander the heate museles of the abdonner of his andriet maquelly uning the oppositioner and feel of hand terment

though in a state of the most signed contraction at this period are occasionally thrown into such indust action during the paronysm, that, if not presented by the attendants the fratient would be precipitated off that bed, or would be pushed expected with such an imputes as to strike his head with great force against any opposing object. Sometimes though rarely the action of the flower muscles acrowness that of the extensors and the body is bent forward the chiral resting on the breast, this occurs only in the most notice forms of the disease and constitutes the Empresthetones of the nesologists.

obunitary muscles are affected, the features are variously, attered, the forhead is drawn up into winkles, the eyes are either fixed in their orbits or distorted, the alæ of the mose are drawn up and the cheeks retracted towards the ears, The targue is suddenly protruded between

the princed are consumedly theremed and such and . The summer the forest that if not forest by the attendant the patient would be presuported I the led, or would be parted experience and week on emperor as to stude his head with pear fire from hymen the contract of the said the said the various of the flower necesses were the of the extensing and the bedy is but found the chier rithing on the heast, this cours only in the motioner from af the director and consequence que, Endireceppede On the most molest cases all the dentery increbe are affected the features are variously. thud the poluadicideance up into incilelis, the ye are when fixed in their orbits in distinced, the cla the weeks any drawing wife wheeks without browned the spy. The tayers is rechtyfretierded blesse.

the teeth and often severely lacerated by the jaws spasmediesly closing at the same moment; the eyes are watery and languid and a firth which is sometimes tinged with blood ifues from between the lifes. When tetames arrives at this stage a more continued or whent spasme generally closes the seeme, or should there be too much exhaistim to admit of this mode of termination delineur super = - senes, when death is freeeded by a general musicular relaxation

One of the circumstances attending this disease most worthy of notice, is, that there is scarcely any function except that of muscular action primarily affected, the senses and appetites are perfect; the intellect is undisturbed, and the natural functions are equally exempt from disorder, fever rarely attends, the pulse being not in the least attend in the early stage of the complaint when only a few muscles are affected with spasm; it becames accelerated only when the disease is nearly universal, and this merely in consequence

" change at the some mounts the specare and and I longend into a fath wheele is downtined trapped with that spine from deturne the right Whin telanne anne " It that stronger a more constanced in wellout spaning present and the second or should there be to much whentin to indicate of this mender of terminations delicence, refere House solves death is forwarded by a general minister last The second second I have of the comment and attenders of 120 that distance most enterly of molecuses, that there is somety and function weeks that I mounded in the function from the sted , the server and application of species, the intellight undistricted, and the natural fundations on equally might from didorders forminally attended the pulse lung inte un the hast inthemed in the energy stays of de complaint when only a formandels are affected with sparming the hormous ancideration and on their the de pearse is memberly amounted from the mounty on the

noah spile, which it is med thomas out to house, on the second 11000 exactive greened this, people are given for for mere process todis is inspector , the regulative as mught do espected . . . luges have ned from the same is come the temperature HILLOR Ther te sessolt of debale assetterate is recorded as you be diet from The state of the blood which when 1,000 The desirate and a sold to the dealine see to a see helpes replanementing diseases, and and from the antice in everifition from the functional decongruent which the attends the preprince in some race and and the distance of went watered there is more on tife betrile action his this is severe preguently the will a disporting them we the homewater speed of The complement he the saidy stayed of to state of the plan is purpostly, and track that will

of the mechanical action of the muscles whow the blood refsels, which, it is well known will hurry on the circu-= lation and throw the blood upon the heart in greater quantities, rendering the puelse mon figuret and irregular, the respiration as might be expected is hurried from the same cause and the temperature of the body increased - That these symptoms are not the result of februle excitement is rendered very endent from the state of the Alord which when drawn does not exhibit the buffy could as in the inflammatory diseases, as well as from the entire exemption from the functional derangement which usually attends the pryrexice; in some rare instances when the disease is very noting there is more a less of februle action, that this is more frequently the case in the Idiopathic than in the Transmitte species of the complaint-

The state of the skin is furfectly, natural, but as it

Valor recovered by takes place in the despending place. The serie weekeeds and the is esteral for the affection The immed amount france of the charge inter the whole amount a forthe desirable and the food topat may to take the to I well depteted the stefferent exertions are also effected It the secret furtherty is ald the deeple enterest and more I to the tended is recovered to the primer and differently to every secret probably to a speciment of the defendent of the Aledeles at the times at sense is a sufferfield - Whitewater constitution from will on many is intained and the ancest of ancesford contained in I required to account it is lower thinks that the is out findally amy to a speed of the interture. Vilees atticher it to the opinion which is woulded the permitteed for the one of the observed het this lutter place int appear at all findally from the circumstant What constitution prematition or great deput in money

no doubt that it is aggravated by the use of this me =

The most preminent synfiterry of Fetures have now been enumerated and it only remains to notice some of the premonetary signs. These as the acute form of the disease when once established is so uniformly faital are of the highest importance, and we should sedulously attends to whatever may warre us of its approach or enable us to wirt an attent. It has been remarked by Richerand that a continued extension of the lumbs during sllep in mounded persons is often a precursor of tetanus and usually manifests itself some time before the muscles of the jaw and throat are affected this is a symptom to which we should pay particular attention when there are Sundured or lacerated wounds particularly of the lover extremities- some premantions of danger may also be derived from the increase of pain, irritation and restlefsness, nervous twitchings, difficulty of

= town of you bear aspectly considered and some sent against some singly months to hand a former a second second of great of the The same of the property and a state of the same of the of somethy of total me if the helphist my interessed from desired of side lovely aftered to extend wears were present for of the operation is another in the court of an attendent I the har dead remarked by about wind that a continued perturence of the land denney alles in mounded para a flee a foresinter of telescois and mining in a feet. teef some time she the muideles of the jour and and are affected that inappropriate where where he harded from frontiered aftertion interior their our less retired on laws with warmen particularly of the lence to transities for freemountains of dance freeze to be decimed from the increase of fraid with the

deglitition or in the unitions of the head, pain at the survivalisticalist cordis, also the suppressed or intiated discharge from the wound; Larrey has recorded several instances where tetames was preceded either by a dry state of the wound or where it afforded only a very deficient serous discharge and Dr. Pried in the Colinburgh Medizand & Surgical journal observes, that an the unword of the drefsings the wound was found to be corredowthed and cark coloured unhealthy looking matter and that he had noticed this appearance to precede tetames in two other instances—

The post morten examinations of those who have afferded very little information respecting the nature of the disease, sometimes slight effections are found within the cranium, the asophagus and villous eval of the stanach are generally more or hep inflamed, but this appearance is not confined to this disease, it is frequently mut with in eases of sudden and violent death; in

deplication or in the motion of the head, places no de develocable conder also the insproped or attituded reliabled from the neurally dained has moraled second instances where the way presented within by a day starte of . the unique or where it affinitive only a very difficult remier observation and Other President the Charles thank red & Surgread James of when that as the unional of the dispuse the remit was found to be remissioned a deet colonier unheattly techniq matter and that he had sustand this opposition to present Whenever in teer other mistances -The post we extend expendence there who him I died of tetanny have affected my . lettle informations respecting the instance of the discount meetings dight effections are found within the mornion the assophages and return seems of the stances one since of for some or top inflormed or hat this apprisoner in at any fine to their distance, it is frequently me with our necessary of secolulus wind sinterior to the sint is sint.

addition to this Barn Larrey found the pharyng and asophagus much entracted and covered with a riscid reddish muses in several instances a considerable number of Sumbrice were found in the intestines these he thunks may have aggranated the disease - Mr. Hennew holds the following, language respecting post morten appearances, "In the difec -- tions I have made of this disease I have been much disappointed. I never found any preculiar appearance in the counds themselves except in one instance when the radical nerve was somewhat thickened and a small splinter of bone was sticking in it, the man lived six weeks" The inflamed or lacerated appear = = ances frequently observable in the stornach, fances, larynx &c, appeared to him to be occasioned more by an increased flow of blood to their consequent on their increased action than from any other cause DE Reid of Dublin found the membranes mesting the spincel marrow much inflamed and a

adoletion to this pains dancy found the planying and tespelages much contracted and and aired with riscret medelish musical on several instances as considerable number of landerine were found in the intertein's street he their his may have approved the discuss - alle Henned holds the fellowing language respectively first martens upproximents " ha the difer limes at home amade of this diseased those have much! disopposition downers from all any prevention opposition the comment themselves except in me instainer when the received some and former had thickened and a mode planter of low and wishing in it, The mound lived in mucho" The mylamust in lacerate offuers arms prequently observable in the Hancock, forest. Haryen Be appeared to hund to be comment once to an invessed flow of their to their secretyment and Their mourest oction than pass any other course DE Priot of Duthers, James the members extend the spinal money much afterned and a

considerable effective of blood into the cellular tipine connecting the dura mater with the vertibrae, and in some places he observed a whitish substance resumbling modulary matter effused between the twinca arach-noidea and fine mater, which he could wife off in breaking the membrane investing it, but could not discover the slightest refeture in the fine mater or any of its refels; the only appearance remarkable in the medula spinalis itself, was that it, cortical and medulary frontions had a deeper tinge than natural

There is a curious case recorded by Howship in the 22° rol of the Edinburgh Medical & Physical journal where on diffection the heart was found to be firmly contracted, evidently partaking of the tetanic ingistry of the voluntary, muscles

Trognesis- this will in general be imparwalle, but more especially so when the disease forms quickly, and some attains it's most violent stage, the danger

according to the experience of the ends the collection to process consecting the dura waiter with the vertiline and in were pleased the directly a whiteh suite times amounting readed large and the effected between the time or inse unideal great from anatte which he could no will as heading the man have medicing it had comed and discourt the ship has madeline in the parameter in every of its supelist the weeks appearance summinally in the mederline friends still, was that it entered and muchellory pertient had a defer lings there There is a consissed case accorded by thousing in the 22's let of the Educatorish hardieal & Hayacal journe retine on different their leasest and found to be finely entracted mideally partiting of the Utania registry Tregularity This will in general to informate but nice experiently to when this discuss from another and done it their it was to weet and stayed the danger

being proportioned to the rapidity of the attack; fatients thus situated generally die in twenty four or forty eight hours rarely surviving beyond the third day; but when the disease comes on slowly and the symptoms are gradually developed and the patient survives after the tenth or twelfth day there is a quater hope of a succepful termenation. The state of the circulation so much insisted on by I Parry as indicating the degree of danger appears from the statement of Mr. Hennen not to be entitled to the slightest confedence he remarks . " From the state of the pulse I have derived no clive to either the proper treatment or the probable event; it has in the cases I have met with been astorishingly imaffected; from the state of the skin I have been left equally in the dark, sweating which some have unagined critical There seen excepive during the whole course of the disease and attended with a most purgent smell while on others it has never appeared at all "

green the first and a feel of the called in Parties to theest datemated generally der un territy from on first profess demand principle some trapped the thirteet. don't find when the diseased comes on shorty and the youghther our gradually duelfied and the patient seement after the tople on beefth day there is a grater legter of a surreffer to the formations . The start of the under coting the degree of danger appears from the the desphitest and extenses he concerded to prove the dates of the pulses their derivations cles to exten in the cases I have met with here asterial hinglyleft equally in the dark, sweaters which some has inequired withing I have some piece density the hele course of the whender and allereded in the is ment prompered small while in other it has now affered at all "

Somewing the Diagnosis searcely any thing need be said. The permanent spasmodic closure of the jaws, the rigidity of mist of the robustary musty, particularly those concerned in mastication and digletition, the pain shooting from the lower end of the sterness to the spine, the appetite remaining union:

- paired, the digestive as well as almost all the other functions being well performed, and the entire exemption from cerebral disorder and febrils excitement; are symptoms sufficiently characteristic and will always pre-

claims our attention. This is subject abounding in difficulties which in the present state of our knowledge of the nature of this disease we can scarcely hope to aereune When we reflect upon the obscurity in which the pathology of tetames is involved and the fattle light that has hitherto been thrown on it by diffections we will no longer wonder that our practice is almost

Lung him by regard from the British having him to and the saidle the personalit sparmed in chance of the joint , the regardily of wart of the relasting many partievidently their conserved in martication and digle tries the pain shorting pour the land wind of the designed to the speak the appetet amount on paired the depeter as well in about all the where functions being well preferred and the within one plans from enchal divides and foliale exection and equiptions sufficiently characteristic and will observe for evist us formed unistanting the steeress. alle treatment of atomes need claimed our nothertens : Their is respect abounding toffered wheele in the prince state of me humiley the materia of this diseased no come somethy begin to our course Milain de reflect efear the desenvery in which the patheology of telement is uncless and the tells light that that buther to him themen in the physician as will in longer woulder that our process is where

interely empirical or that there should be such a number of opposite remedicious proposed for its care & that so many different modes of treatment founded entirely upon speculative nations, should each in their turn have enjoyed only a short bired reputation. For it is not by placesible theories nor by speculative powers be they never so brilliant that the obscirity which shrouds this subject is to be dispipated and the difficult ties by which it is inversed surmanted. This can only be done by potient research and accurate diservation and it because the duty of there who have the opportunity faithfully to collect and arrange all the facts that may toud to its elicidation -

The indication of cure applicable to ment other diseases (vizt) the removal of the exciting causes) cannot be of any avail in this, which, for the most part consists in a morbid condition entirely independent of them, or should they still continue to quate

senterely majorereal without their should be sever a necestion of appendix remembers of proposed for the course of their se greated stilling under it lead freed formated with the afres Heavelotter rections, should each in their terre have enjoyed andy or where head infaithers his is is not by planted themis our by specifican le they present to distlicing that the Aleestery which whender their redgest is to be defined and and the definite less by wheat it is surroused from mitted - This one outy the stone by patient wareness and accounted dumation and it herein the duty of there where. have the opportunity faithfield, to collect and arrange all the fact that inay had to it chericas The indestries of our applicable to meet other diseased lought the unional of the centises comes last contests and amended and took with which dent of them, or should they the continue to fine

are in a great measure beyond our controul. The disease often refuses to juld to any mode of treatment and the same remedies which have been succepfully employed in some cases have not been productive of the slightest benefit in others to all appearance precisely, similar. Where there is any suspicion that the local unitation is still acting, the best made of counteracting its effects would be to intercept by suitable incisions all nervous communication between the wounded part and the sensorium. But when the disease is once fully formed and the vident symptoms have supersund experience has abundantly shown that this will be of no served; Even amputation the efficacy of which and arresting the march of the disease has been so much extelleds will not under such circumstances procure even any mitigation of the symptomy. Larrey the most strenums advocate of amfulation in telenus arising from a nounded extremely expressly limits the opera: - two to chrone tetames, when he says it may be

an in a grant measure hyper our continued. The discosed of the softend to yield to any anime of treatment They seems remed in the deals seems here the seems particular in time continues and have printered the stepped herefor in others to all of personne principly the wiles of the star stary and priving that the local aretation is still acting, the last most of countereding is affect needed to to witnessed by socially medicine I all notioning commencement that the committed from and the persone about when the discuss is many field friend and the reduct symptoms have suprement experience has admindrately shows that this will be seem any milegation of the spiritation darreng the most dimension asternate of any feedation in telegrous aning los to chance Witness patient to my it account to

advantageously practiced in any stage of the disorder provided the operator choose a preside where the symptime intermed " and to the inciprient stages of aciste tetamis; he remarks; "it will not suggested as well in agente tetarrus if it be advanced and the museles of the limb to be amputated he strongly contracted, and rigid" he cites a few instances of chronic telanus that refuse to yield to the ordinary mode of treatment but which were completely curied by amputation, there are also a few cases recorded by other writers in which ampre-= talear was successfully practiced Mr. Hennew states that he saw a case in which this operation was attended by the happiest results; yet notwithstanding the partial success that has attended the operation it is not probable that it will be generally, adopted it has been treed extensively in the British army but without success; Sir astley Cooper also disapproves of it in the most pointed manner The death of the patient surred to him to be accelerated by amputation

reduced in greatly produced "in any stage of the discussion Accounted The friends about a figure of wings of his specifican interest " and House insigning days of ariets follows , the remarks " it will war inspected as well in agente alament if it hadraness in the mostly of the link to be confuntationed be stongly continueded, and upid 19. he color or four instances of chamics telanes that refer to girld to the codimenty meder of treatment , but wheel in empletely wined by amputation, there are also is four cover seconded by when enters in which muyber taline was severelfully privated all Homen with that he down case in which this frenction was allowed by the happinest reside; yet notweelessanding the paint secret that has allended the function it is not probable that it will be queeally adopted it has been beset extended in the Buttish anny het milent severely der tertey, Cerper also deseppears of it on the west presided manner the death of the present inned to land to be recelerated by anymouterer.

in a case of tetainers arising from a confround fracture just above the ankle and in another case which came under his notice the finger was amfulated without any lengt resulting he also heard of a third instance where the operation was attended with same want of success; he remarks in conclusion There is a species of chrone tetames which some = times even succeeds wounds and which will occasion: = ally get well, and apparently it recovers, even if tittle be done by medicine and nothing by surgery and in such a case et would not be justifiable to amfuntale as the patient will get well without it " From this it would appear that ampertation is at test not only a very uncer = -tain means of cure that may, and occasionally does aggravate the symptoms, and should never be resorted to in preference to other milder unedies the superior efficacy of which is so well attested, and that nothing short of the assurance that this was the only means of saving the patients life would justify the performance

in a case of telement anisony from a confirmation protection and above the and he was not constitue and interest cause involer his waters the finger was any intered wethout overy tunifit persoling he also heard of a Wind destance where the operation and allocated and some wint of weelf; he seems in an emolision "There is an openess of charmes tetermes where somes times are secretical warmed and which well occasion willy get excell and apparently it recess, some of little The done the sincolouise and mothery by surgery and in iciol a case it would not be justifiable to amfuntate of the proteints will get will without to it " Some this it would of frien that any and alone and lest not only a my more approvate the squigatory, and should never be posted to in preference to other miller surreles the superior effering of which is so well attested, and that methery what of the openances that this was the only moved of serving the patient hele would justify the professioner

of so severe an operation or offer any apology for depriving how of an important member -

With regard to incisions for the purpose of completely, dividing the wounded nerses and culting of all communication with the sensorium, harrey advises that they should be made before inflam-= mation has come on for when this has taken place he afterts they are not only useles but even injurious & They should as far as is practicable include all the nervous filaments; but he is decidedly opposed to all incisions into joints as aggravating the clisease. The has adduced some instances strikingly ellustrative of the efficacy of this practice, one in particular where the sufra orbitar merre was injured by a thrust from a lence symptoms of telanny supervened but were printptly arrested by making an inciseur down to the home dividing the refels and nerves __ As our early and highly irritable

emolition of the wound has a tendency to induce

hearing at the year her all is and hearing no received weight of our weeks experient mounted in to the state of the second second state of the herefore of confectely directions the commoded mines and culting of all one immers time with the sensorium, water acted to that they should be mostly before building instein had conserved for when the has taken feliced be aspected they one nich andy made but ince required they should as for as is practicable include all the jument planninter let he is devided opposed to all entitlesses water percel out approximations the distance . The that noteleiseel some unstances statingly ellestrature of this oficercy of this proceedes one in portion where the refine ablan some waringend by a think from on leurer symptomes of thomas supremed but were promptly and by mistling an insideric down I the him dividing the refule and nowed - electer and highly mitalle conditions of the wind has a tendency to induse

telanus as well as that state of it in which the discharge is of our unhealthy character or altogether suppressed The indications here are to allay local irritation and restore the healthy secretion of pus; mechanical causes of irritation such as splinters of bond, balls and other extraneous substances, should be removed us soon as populle, pouttices and other emollieret applications have been recommended for the purpose of allaying the local inflammation and reestablishing a healthy discharge, their efficacy however appears very doubtful so much so that it was the practice of D' Push to endeavour to exerte inflamination in the wound and for this purpose he directs that it should be ditated and drefsed with the oil of turpentine, a mode of treatment that has proved to be of the greatest utility in the extensive experience of some of our most eminent surgeons, Baron harrey advises blisters as near as possible to the enjured frast and particularly, recommends in the incipient stage of the disease the application of

is of our understilly character as digether copperately the course of a second with the property of the second of institute and an explained of land level with and over popular from their more than an all and a formation of with the same of t the stored regularization of the court and the state of t with one has been ble mount house the complete of the company a some so what we have formed to the former of he that freezeward his secret to the secret to the second to the second to the second

Spispastic outment to the wound itself for the purpose of doing away the local irritation he was in the habit of applying the potential as well as the actual countery he restricts the use of counties to the early stage of the disease and in applying thundirects that we should observe the same rules as in making incisions; with respect to employment of the actual centery he makes the following remarks "When I suspect the compression of a nerve : by the enlargement of the neighbouring refsels or by the adhesion of parts of the citatrix, I do not hesitate to apply the actual cautery until Treach the points of the disordered nerve and sometimes I carry the can-= tery even to a greater depth. This application justly recom = mended by the physicians of antiquity has produced most surprising effects - By destroying the adhesions and presenting the twitchings of the news it removes spasm and irritation" he gives a few cases in which he employed it where the relief afforded was astonishingly prompt and

of inspection continued to the manner that the the in the hatel of opplying the peter hat as well to the said stage of the circum and made the playing thundried That we there liberalist was es emperations in a content of south replaced to be supplement of the actual country he works the lettering semente "Allen Lengtent the majery of more by the contagneous of the encyphancing refer as by the vollecine of funds of the vitation of the vitalities. to apply the central contrapainted second the facilities the disordered much and southing the case tesperate a quater safeth the sheaten just grown mended by the feligions of antiquity has free free dies de per in my per and of a factor of the fair in facility for infacility Commentered the Hartelings of the secure of the street of the state of the

in a few instances yet from the uniform successthat has attended it primises to become a very important addition to our means of arresting this intractable disease; and it is due to the high profesional standing of him who recommends it that it should receive a more extensive trial -

Cataplasms of totacco haves applied to the wounds appear from the experience of Larrey to be entirely inert; he also funds that blisters officed to the throat in trismus did not arrest its progressThe principal topical remedies have ince been enumerated: a greater diversity of opinion seems to prevail respecting the constitutional mode of treatment get it is from the general rather than from the local treatment that the cure of telames when it is ance fully formed can be anticipated.

The seat of the disease being transferred from the local injury, to the nervous system generally, we should

The secretal the state of the second of the second for the second to the second second the second se there is fire interest yet from the confirme were expected That attended at primers to become a very my instairt additioned to our incomes of wise thing that interestable a despensed france to the total the facility of account the standing the dream with a separation and the think it is the state of the contract of Charles and Locases lead of the to the security appears from the enforcery down to be suchered insect into also formal contract lister applied To the throat in terround ded with and of popul The present topies to remedie have " were been inserious while a greater during of of miner seems to present expecting the contellerant work of Continued get it is from the proceed ristles there New The Logal treatmine That the own of telement where it is an a failly promed can be asstrict about This sent of the disease long transferred from the from timperey to the sense and special family in species

endeavour by making a powerful impression on these organs to excite a new action which will subsert their existing merted condition. The remedies which have been found most effectual in the care of tetanes are those which exert the most powerful influence on the nervus system, such as the newcitics diffusible stimuli Bleeding purging & these have all been employed either singly or variously combined, yet the success that has attended their exhibition has in general been very limited.

I prime is the remedy which has been most succepfully employed and in which the majority of practitioners place the most confidence. To be of any any service its exhibition should be commenced on the very first accepion of the symptomy, the doses large and repeated at short internals; it is however generally recommended and is perhaps the better practice to commence with comparatively moderate closes, as sixty drops of Landamen repeated at short internals rapidly

continue months conclution . The mondes interest have en found mote frederick in the one of themes there would could the west formy full on finance in the course explane, and has a the more best all wells therein blushing fragging the steer have all here exployed e surgly on somewise con hundle get the money attended their whiteties has in gonnel hun into success fully employed and an incole the majordy of foundationers place the court continues in to I am nearly search explications should be commenced in the may find occuping of the symptomy. He was large and refunded at short subsmile is in house grant monumented and is finday the letter from the distribution in the second dead on with de fix of Sundanning up anded tot short interior apoli

increasing the quantity until some sensible effect is produced The necessity for the rapid augmentation of the dose will be obvious, when we reflect with what celerity the disease advances to its most votent stage, and that no time should be tost in arresting its progress while there is any chance of our remedies having any effect. The firm closure of the jaws, the spasmodic regestity of the museles concerned in deglutetion, the increase of which may som render the introduction of medicines into the storach impracticable, are additional motives for frushing our remedies to the citizent before these impediments arise. When we find it impopelle from the above mentioned causes to administer the medicine per oren we should resort to opiate enemata. Tersons labouring) under tetasses will take with impunity unmense quantities of opium which under other circumstances would certainly prove fatal, cases our recorded where grsxtoxx have been administered every two or three hours for

and the state of t and the trible one of agreement transcent to the to the same than the state of the s There were described the continue to the property of Ether there we proceed in front in a deliterary with a street in free de conserve de la conserve d

several days in succession; an instance of this kind, is recorded in the It to of the Eductorish Medical Commentaries where the patient took fifteen hundred grains of fineme in seventure days and this, withint its producing any of its naredies effects upon the sensorium. havetire medicines should always be employed to obviote the costiverus which uniformly attends this disease and is aggresated by the use of opinion But where we have reason to suspect the disease to be aggranted by by a cumulations of initiating sords in the intestines it would perhaps be title to administer a full close of some brisk eatherities and afterwards employ lavatives in does sufficient to keep the bourle soluble.

The rest of the navories as well as

many of the antispasmodies have also been emphayed, such as Digitalis, Cicuta, mush, Camphay Ether se either alone or in combinations, but in general with very title success, they are however useful as auxiliaries to the opicite treatment or

agend days in successions; we instance of this heart of accorded not the 12 to of the administration described taring reduce The plater out look where heavedied grown of finemen and secretaring of one wine their incidence is to free discourage and of the season of the season in distributed the interest of which any formerly allered the day we share reason to surfect the discour to be approvated it would find for the telling to administer a full door some theele esthering and afternood enjoy directors town sufficient to tenting the land while + The wite of the newscoin or well of the and opening the last also less or opening to motion to expelled the weter, then to the expelse to the a war. letter seemely they and housened assigned as merelland

Mercury is a remedy which at one time was in cosiderable repute and still has it's advocates, get it has so often failed in procuring any allevation of the symptoms that it count be relied on; it is to be administered internally and at the same time frictions with the Unquent: Hydrang: are to be employed There are a few cases or record where this treatment appeared to be beneficial, jet in nove of them was mercury soley used, so that we commet all ribute the succepful termination of those cases entirely to the curative powers of this medicine; on the contrary there are several instances retaited by Howship in the Edinburgh medical & physical fournal where it entirely failed, though the system was decededly brought under the murcurial impression, one in particular which terminated fatally netwithstanding) the fratient was in a state of complete saluation therty six hours before he died; Leurey says that mercurial frections appeared to aggrarate the disease and the opinion of Moseley respecting

Morrowy is a specially which at our time. get it dies to fless fredert en presences any allinian of the symptomes that it commet be relieved us it is in the description of the second of the second track the second tracks bestions with the Magnest: thydrog: an a be enployed there are define course on record where this trustement opposited to the thoughing you in some of them and as earlied tensemention of them were somewhy to the one several authorious allated by thought in the Edulary brodical & Physical personal, where it wateredy for look they the splitein and devolety har file wide the surveyor infrappiered, in in frantisaline relaced terror noted fold activistical and place feature and one a state of any order sultrations thereof say hours hefere he died ; hours day that mendered frieters of franch to offered the diseased wind the opinion of allevely respecting

mercurical inunction is as follows I suspect those who have recovered when this remedy has been used would have recovered without it: for many people have been attacked by telamis in the West.

Indies under a course of mercury.

Another mode of treating this complaint

Another mode of treating this complaint consists in the liberal use of the most powerful toxics and stimulants as Mark, wine, brandy, Ether, the preparations ammonia & this plan of treatment was introduced by D' Rush who considered the disease to be defundent of debitity; he particularly recommend the free employment of wine and back and in his hands this practice had considerable success there are also several cases recorded by D' Hosach in the

Dr. Reid of Dubling considering the disease to be seated in the Midulla Spinalis and its investing membranes which the had board

The same of the sa propelly drawn been attracted for telescores in the sour in the sea the tolored are of the word from place and in intermed by D. Burk which and the survey of the survey of it the the happiness we will a The desired to be funded in the hoodelle family and it initially mountained which the hard back

in his difections to exhibit appearances of inflammation, actives the application of a blister along the whole course of the spine; a mode of treatment very analo-- gones to this how been highly spoken of in this country, it is the application of courties along the spine and in some instances it has been very succepful -Venesection in the opinion of some is a remedy of considerable efficacy, Dickson in the 7th sol of the Medico Chirurgical Transactions actives bleeding and purging in a plethorie habit where the wound is painful and inflamed; several instances are recorded by Larrey, Guthrie and others where vene = = section was found to be very serviceable as a palliative and in one case which occurred in the practice of Mr. Guthrie a cure was effected by bleeding the patient several times and delignimme animi . The success however that hers attended it is much too himsted to place it in competition with the other remedies where super - nier efficacy has been so amply tested; it had a fair

in this out field for the sister of properties of anythere were the adries the explaination of a dister when the wheele arines of the spirit; a morale of treaterisine way analo good the thest thest hear haghly speden of in this airestry it is the applications of courted uling the spring and in some instances it has been my surelful -Presentation in the element of ... veries is in princedy of americantle officiery I Dichen no the 7th tot of the thickies Champing Thermore noticises bleeding and prorquip in a plething in hill when the comme is presented and inflamed; served instances are recorded by Lursey furthering and others when none rections was firmed to be very surrecalle as a palledie and we one case wheat eccurred in the purctice of the fultime a course was effected by therefore dennal land, as deligning anime. The secret humes . that has attended it is much be her humbed to place it in competition with the other semidees when right nier efficacy has less so amfuly tested; it had a fair

trial in the British army during the peninsular war and so often failed in making "impression on the disease that tittle reliance can be placed on it. The only care in which it seems to be indicated (and this ranky occurs) is where there is an inflammatory diathesis present, here, the exhibition of opinion and the difficulte stimuli should be preceded by senesection & purging -Among the remidies for tetany it may not be amis to notice the cold and warm tatte; Mit, Hennen affrones of the latter as and. anxiliary to openion, but from the testimony of most writers it affrears to be very inefficient, in some eases it is said to have afforded relief but this was merely temporary; the employment of the cold buth is a practice sometimed by Dy Mright, Cochrane, Curie and many others; of its utility in Sdiepathic telanus we have the strongest evidence but it does not appear to be at all suited to the traumatic form of the disease,

The same of the sa here the extended on of frame and the definite to there has presented by more soften below to Acoust, the provided for Edward it away not be annif to water the cite and warren lather that themin appears of the lister as are insist emiles it appears to be seen inclined, in locate capes stire said to have affected wheely lest their event somethy tourspromp, the confessioned of the cold high in a prometice sometime to be Mayor fortherme bearing and survey stands of its whilety me lotiopathic Etwans on how the denigest evidences hat it does not appear to be so all similar to the hominates from of the disease, tetames arising from wounds & harrey relates a case which not only shows it's inutility, but also the perioreness effects that may result from it's employment, in this ease the tetamic regionity was not only inwased but such rident commissions were excited as to respective one of the recti muscles of the abdomen. Sor the few trials that have been made of the cold bath in this country, it has been found to be wholly inadequate to the core of the disease—

as some of the most approved mores of treatment have now been consorily noticed, and from what has been said it may be infered that opium is the remedy entitled to the largest share of our confidence, and should from its almost universal recommendation as well as the success that has attended its exhibition be regarded as of primary importance in the manage = ment of this complaint. The other remedies which some

building is all excludely opported to its emplifying months determent assistance from conversably harries related a sade wherehe and only there it would the her also the personiences effect that may sand from its employment. in the j ease the televise registring west not mely messed het sach predent emuliand were anothed as to respect ine of the poeter some sole of the abdument . In the for trial that here here made of the cold buther no this country at has less formed to be whethy incode igneed to the ourse of the disease -The formerfeel mounded as well as some of the most approach and is traderent have new hour continuely noticed, and from what has hen mid it may be infired that opened is the record entitled to the largest shows of our surprisences and Accorded france its abovered universely insimmendation as each as the same of that has attended its edulition to regarded as of primuraly infrontance in the immurger somet of this complement. Whe other remedies which some have regarded as of independent value are to be considered merely as adjuncts, any influence they may possess in arresting the progress of the disease can as they are not incompatible be fully secured by uniting them with from

Concerning the topical remedies it appross that most authorities agree as to the propriety of incisions for the purpose of diriding any wounded nerve; but to be of any service they should be made in the incipient stage of the disease. The free dilatation of the wound and the stimulating applications recom-= monded by Bush and Larrey should never be neglected These failing or should circumstances occur which the latter of the above mentioned authorities considers as justifying its employment it would perhaps be as well to resert to the actual countery. But it must be confessed that do as we will exhaust all the resources of medicine and surgery the disecese will not in a great majorety of instances price amenable to any

assessming the people of the desiration that medit authorities require as it , the properties of in account of a the prospers of similary and inversable ment to be of any service they done let be made no the conseprior stage of the discore : The fee distation = manched by Bush and Larrey should now to maplica these failing or thunder einemistances ocen which the latter of the above investigand and harders consider as to ment to the actual country . But it must be confepale that do as in will extense all the mining of Moderaid and Surgery the discuss will not in a great misipally of instances from amountly to only

mode of treatment and must still be regarded as entitled to a high rank among the opprehia medicorum Salar and the state of the salar The second secon